CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/SK/CSR-03/1105c/CEMENT/2015-16 Date: 26.03.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. S. Kemparaju** # 43, 3rd Block, 3rd Stage, S.G. Halli, Basaveshwaranagar, Bangalore – 560 079.
***NAME OF THE WORK**	:	Improvements and construction of CC road from Mahakavi Kuvempu Road to Urdu School Road in Dasarahalli Ward No. 15, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/63/2015-16 Dated: 24.03.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	24.03.2016
PERIOD OF TESTING	:	24.03.2016 to 26.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.15/SK/CSR-03/1105c/SAND-Gradation/2015-16 : 26.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Kemparaju**
# 43, 3rd Block, 3rd Stage, S.G. Halli, Basaveshwaranagar, Bangalore – 560 079.

*** Name of Work** : Improvements and construction of CC road from Mahakavi Kuvempu Road to Urdu School Road in Dasarahalli Ward No. 15, BBMP, Bangalore.

Reference : EE/DD/WO/63/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	57.30	30-70	55-90	75-100	90-100
600 Micron	38.40	15-34	35-59	60-79	80-100
300 Micron	11.70	5-20	8-30	12-40	15-50
150 Micron	3.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.15/SK/CSR-03/1105c/AGG/GR/2015-16 : 26.03.2016

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Kemparaju**
# 43, 3rd Block, 3rd Stage, S.G. Halli, Basaveshwaranagar,
Bangalore – 560 079.

*** Name of Work** : Improvements and construction of CC road from Mahakavi Kuvempu Road to Urdu School Road in Dasarahalli Ward No. 15, BBMP, Bangalore.

Reference : EE/DD/WO/63/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.02	95-100	85-100
20	34.68	30-70	0-20
10	11.56	10-35	0-5
4.75	1.89	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.15/SK /STEEL/2015-16 26.03.2016

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. S. Kemparaju**
43, 3rd Block, 3rd Stage, S.G. Halli, Basaveshwaranagar, Bangalore – 560 079.

Name of the Work : Improvements and construction of CC road from Mahakavi Kuvempu Road to Urdu School Road in Dasarahalli Ward No. 15, BBMP, Bangalore.

Reference : EE/DD/WO/63/2015-16 Dated: 24.03.2016

Date of Test : 26.03.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	515	558	13.30	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.15/SK/CSR-03/1105c/CUBE/2015-16 29.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. S. Kemparaju** # 43, 3rd Block, 3rd Stage, S.G. Halli, Basaveshwaranagar, Bangalore – 560 079.
*** Name of the work**	: Improvements and construction of CC road from Mahakavi Kuvempu Road to Urdu School Road in Dasarahalli Ward No. 15, BBMP, Bangalore.
Reference	: EE/DD/WO/63/2015-16 Dated: 24.03.2016
*** Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{30}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 29.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.165	699.8	31.10
2	01.04.2016	29.04.2016	8.327	711.4	31.62
3	01.04.2016	29.04.2016	8.219	726.3	32.28

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Kemparaju**
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*** Name of the work** : Improvements and construction of CC road from Mahakavi Kuvempu Road to Urdu School Road in Dasarahalli Ward No. 15, BBMP, Bangalore.

Reference : EE/DD/WO/63/2015-16 Dated: 24.03.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28^{th} day

Sample Received on : 29.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.215	716.5	31.84
2	01.04.2016	29.04.2016	8.326	729.4	32.42
3	01.04.2016	29.04.2016	8.147	705.6	31.36

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ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28^{th} day

Sample Received on : 30.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2016	30.04.2016	8.218	715.6	31.80
2	02.04.2016	30.04.2016	8.313	724.2	32.19
3	02.04.2016	30.04.2016	8.415	740.9	32.93

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Reference : EE/DD/WO/63/2015-16 Dated: 24.03.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28^{th} day

Sample Received on : 30.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2016	30.04.2016	8.234	719.8	31.99
2	02.04.2016	30.04.2016	8.416	734.2	32.63
3	02.04.2016	30.04.2016	8.287	702.5	31.22

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